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INFINEON TECHNOLOGIES AG VITERBI DECODER

TITLE: INVENTOR:

BRÜLS EXPRESS MAIL No.: EV335472162US CONF. No.: UNKNOWN

PAGE 1 of 14

0.

Radix-2-Trellis mit vier Zuständen, digitale Übertragung

1

Beispiel: Zweigmetrik ZM = [2 - Hammingdistanz (s, e)]

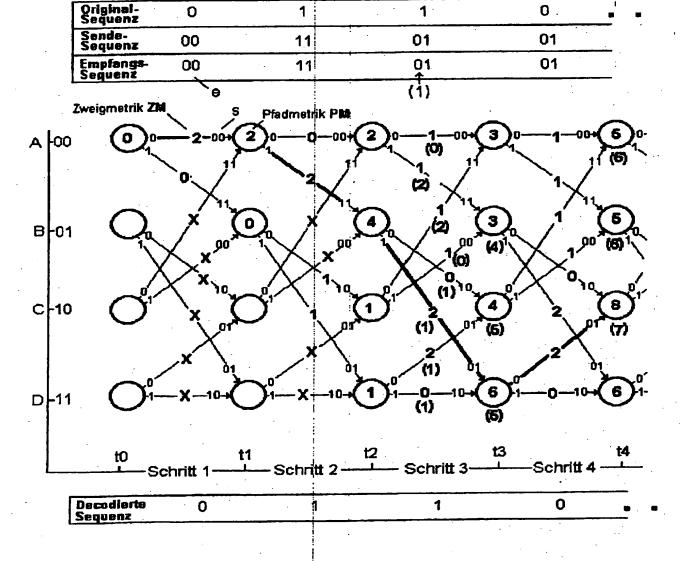


FIG. 1

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PAGE 2 of 14

Radix-2-Trellis mit vier Zuständen, analoge Übertragung Beispiel: Zweigmetrik ZM = 3 - |s - e|

Rusgebe CD 11 01 01		Original- Sequenz	0	1	1	0
Sende-Sequenz 0 3 1 1			00	11	01	01
Zweigmetrik ZM			0	3	1	1
A 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-		0,2	2,7	1,6	1,1 .
B -01	•	Zweigmetrik Zhi	e s	Pfadmetrik PM	· -	
B-01	A 00	0 0-	-2,8-0 -2,8	0-0,3-0-3,	1)0-1,4-0-4,5	0-1,9-0-9,20-
Decodierte 0 1 1 0 0 10 0 10 0 10 0 10 0 10 0 10			0,2	2,7	1,6	1,1
C-10	B-01	O O	X ^{/3} (0.2)	محن ا <u>م</u>	1,4 0	
D 1	C-10		C, x	230	₹1 2x	2,1 2 10,8
Schritt 1—Schritt 2—Schritt 3—Schritt 4— Decodlerte 0 1 1 0	D-11		x _x \x -2 - _	X -2-1.	~0	0
				-Schritt 2—t0+	Schritt 3—	
		Decodierte Folge	0	1	1	0

FIG. 2

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PAGE 3 of 14

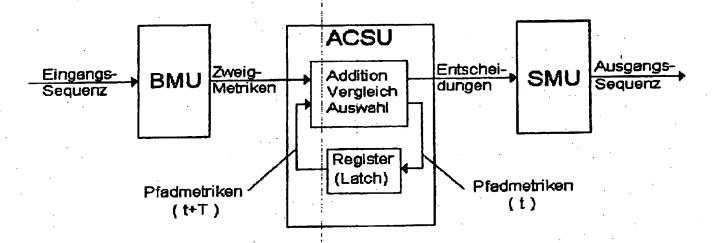


FIG. 3

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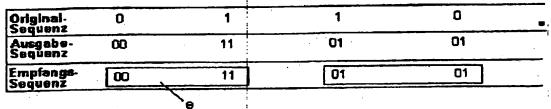
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PAGE 4 of 14

Radix-4- Trellis mit vier Zuständen, digitale Übertragung

Beispiel: Zweigmetrik ZM = [4 - Hammingdistanz (s, e)]



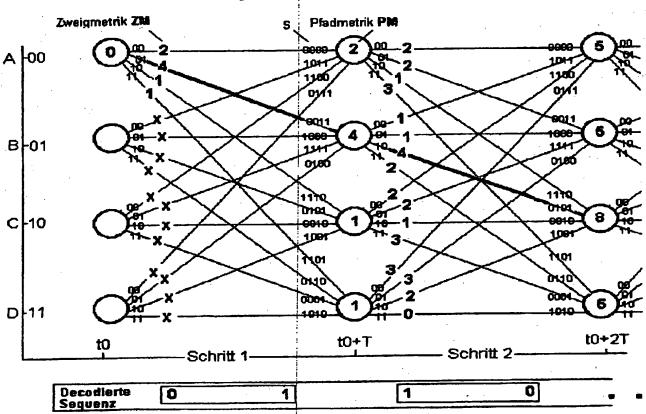


FIG. 4

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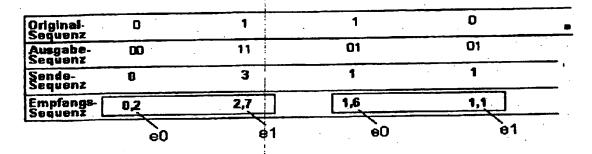
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PAGE 5 of 14

Radix-4-Trellis mit vier Zuständen, analoge Übertragung

Beispiel: Zweigmetrik ZM = 6 - (|e0 - s0| + |e1 - s1|)



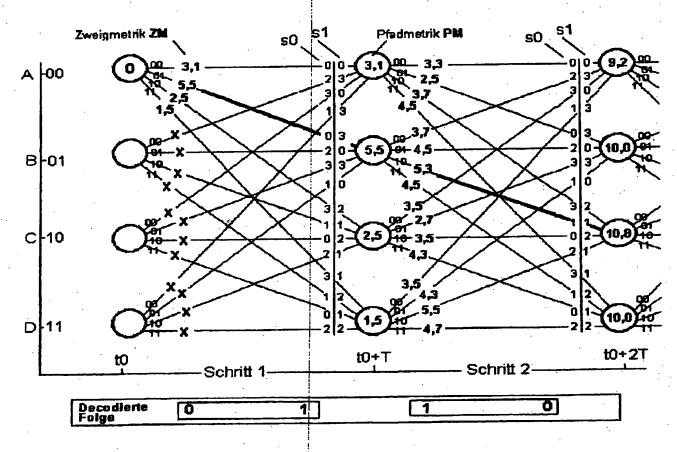


FIG. 5

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PAGE 6 of 14

Radix-4-Trellis mit acht Zuständen

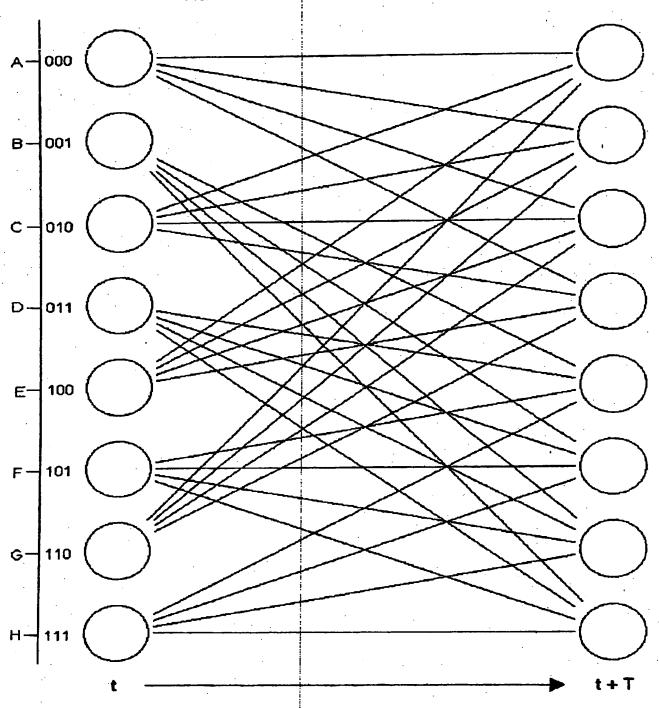


FIG. 6

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PAGE 7 of 14

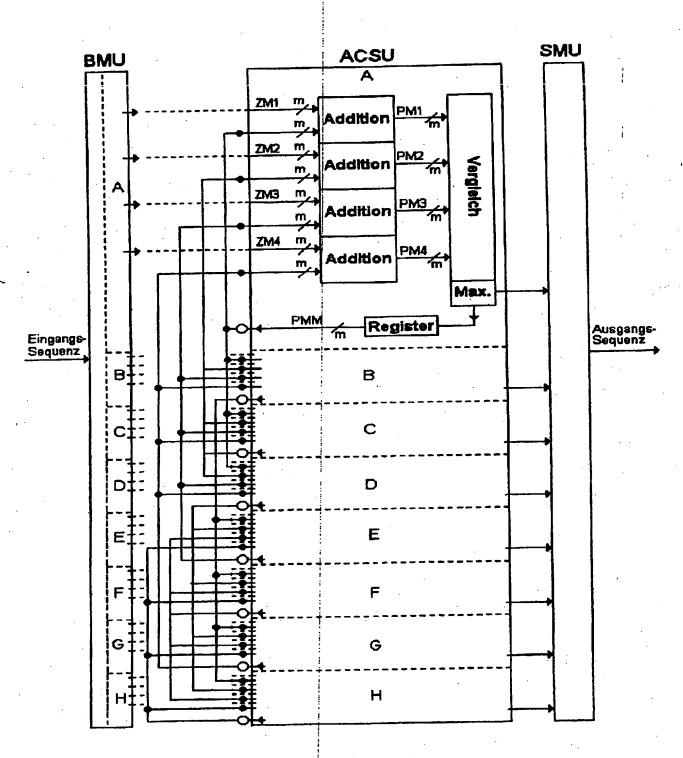


FIG. 7

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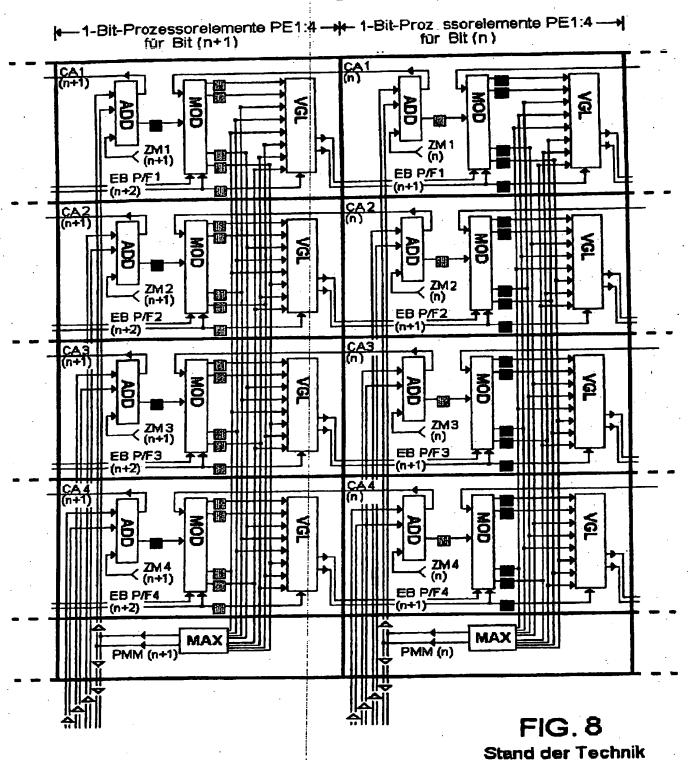
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ACSU-Abteilung A aus Fig. 7



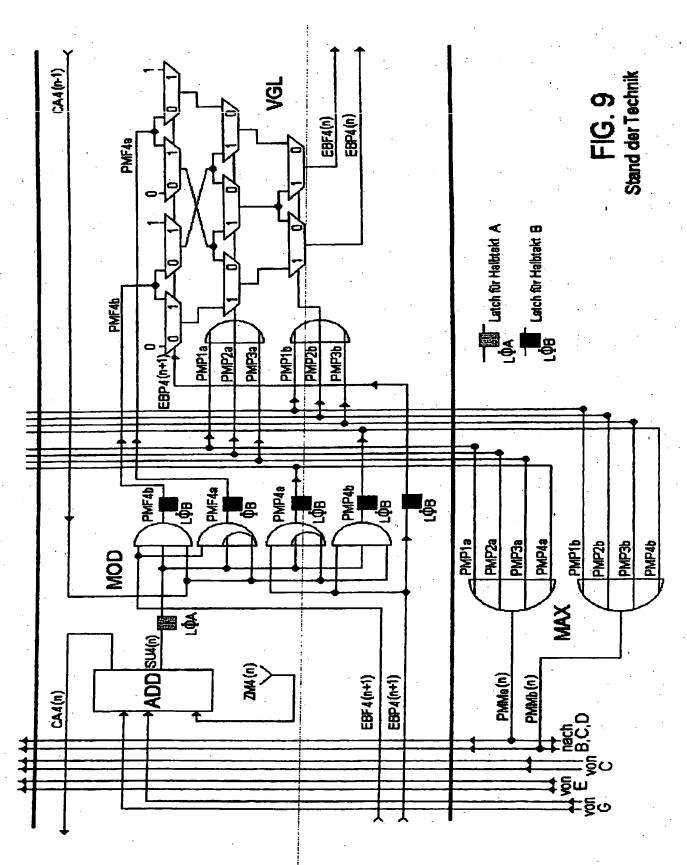
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PAGE 9 of 14



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PAGE 10 of 14

Pfadmetrik-Verteilungskanal

Maximum

Zweigmetrik-Verteilungs-

Leitungs-Treiber

> Leitungs-Treiber

FIG. 10 Stand der Technik

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EXPRESS MAIL NO.: EV335472162US PAGE 11 of 14 CA((q-1) VGL 2-Bit-Prozessorelement PE4(q) 齊更更 für Bits (2n) und (2n+1) MOD 2<u>8</u>40 (a) 至 EB P/F (1+p) E PM E ACSU-Abteilung A aus Fig. 7 (speziell: Prozessorelemente für Zweigmetrik ZM4) ADD Ž Ž Ž ခြွှစ်လ VGL 2-Bit-Prozessorelement PE4(q+1) für Bits (2n+2) und (2n+3) ¥ MOD (4+1) (4+1) 至(年 | EEE | | EB P/F 4 (q+2) ADD **₹**

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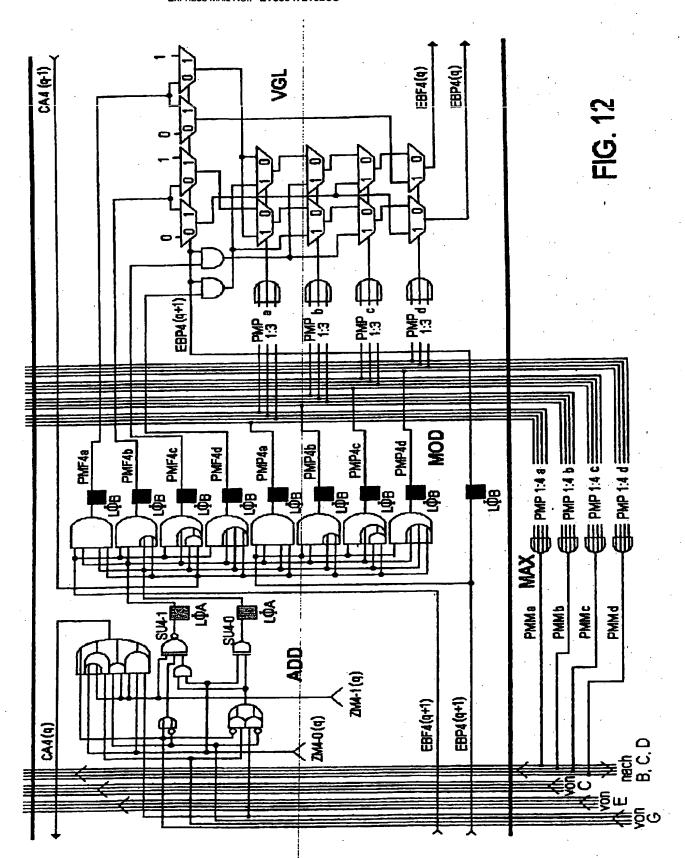
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PAGE 12 of 14



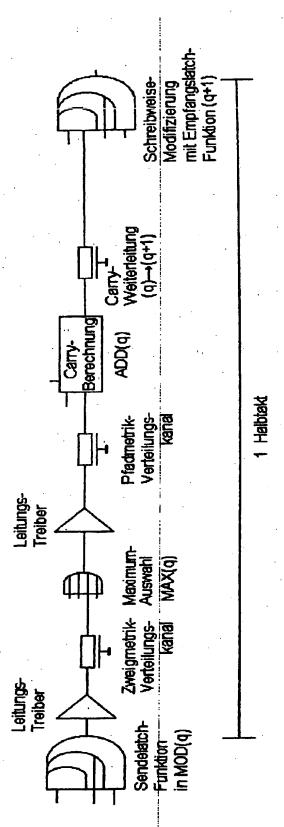
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PAGE 14 of 14

